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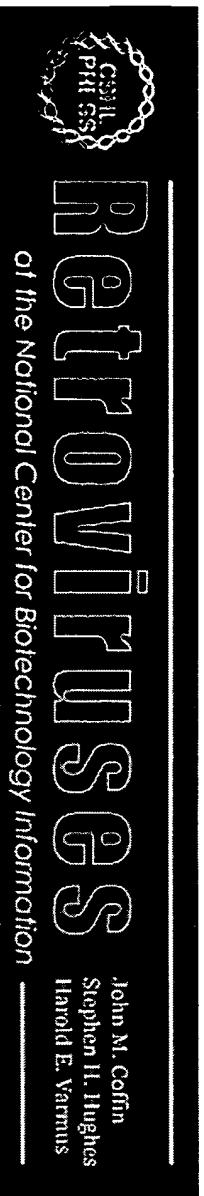
L1 109 S INT6
L2 543826 S L1(W)MAMMARY OR BREAST
L3 0 S L1 AND BREAST (W) EPITHELI?
L4 584679 S L1 (W) ANTIBOD? OR IMMUNOGLOBUL?
L5 51 DUP REM L1 (58 DUPLICATES REMOVED)

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Retroviruses → Retroviral Pathogenesis → Oncogenesis

Table 3. Loci Targeted by Proivirus Insertional Mutagenesis

Locus	Functions of product	Retrovirus strain	Species	Tumor cells	Frequency configuration ^a			Mechanism ^b	References
					Preferred proviral	Activating	Mechanism ^b		
<i>Ah1</i>	?adapter protein	Mo-MLV	mouse	pre-B lymphoma	16%	S, AS	?	Poirier et al. (1988); van Lohuizen et al. (1991)	Girard et al. (1996)
<i>Asi</i>	?	Ab-MLV	mouse	stem-cell myeloproliferative disorder	5 cases	?	?	Han et al. (1991)	
<i>Bic</i>	?	ALV (RAV-2) +UR2	chicken	B-cell lymphoma	14–50%	S, AS	?	Clurman and Hayward (1989)	
<i>Blal</i>	?	Mo-MLV	mouse	B-cell lymphoma	14%	?	?	van Lohuizen et al. (1991)	Haupt et al. (1991); van Lohuizen et al. (1991)
<i>Bmi1/Fli2</i>	transcription factor	Mo-MLV	mouse	B-cell lymphoma	25–50%	5'(S, AS), 3'S 3'P, E	E	Levy and	
	FeLV	cat	T-cell lymphoma		86%	3'(S, AS)	E		

<i>Evi1/Fim3/CB-1</i>	transcription factor	Fr-MLV	mouse	myeloblastic leukemia	23%	?	?	(1994); <u>Bordereaux et al.</u> (1987)
Mo-MLV/Cas-Br-E MLV			mouse	myeloid leukemia cell lines/myelogenous leukemia	10–20%	5'(S, AS)	3'P, E	<u>Morishita et al.</u> (1988); <u>Mucenski et al.</u> (1988); <u>Bartholomew et al.</u> (1989); <u>Bartholomew and Ihle</u> (1991); <u>Mucenski et al.</u> (1988); <u>Bergeron et al.</u> (1992); <u>Justice et al.</u> (1994); <u>Justice et al.</u> (1994); <u>Liao et al.</u> (1995); <u>Nakamura et al.</u> (1996); <u>Peters et al.</u> (1983, 1989b); <u>Dickson et al.</u> 1984, 1990; <u>Clausse et al.</u> (1993b); <u>Peters et al.</u> (1989a); <u>Shackelford et al.</u> (1993); <u>MacArthur et al.</u> (1995)
<i>Evi3</i>	?	AKXD MLV	mouse	myeloid leukemia	100%	5'(S, AS)	?	
<i>Evi5</i>	?	Cas-Br-E MLV	mouse	non-T, non-B cell lymphoma	20%	5'	?	
<i>Evi9</i>	?	AKXD MLV	mouse	B-cell lymphoma	9%	5'(S, AS)	?	
<i>Fgfr3/Int2</i>	fibroblast growth factor	BXH-2 MLV MMTV	mouse	pre-B cell lymphoma T-cell lymphoma, myeloid leukemia, B-cell lymphoma	1 case	5'(S, AS)	?	
<i>Fg4/Hst1</i>	fibroblast growth factor	MMTV	mouse	mammary carcinoma	5–65%	5'(S, AS)	E	
<i>Fg8/AIGF</i>	fibroblast growth factor	MMTV	mouse	mammary carcinoma	<10%	5'(S, AS), 3'S	E	

<i>His1</i>	?	Mo-MLV Cas-Br-M MLV	mouse mouse cell lines	T-cell line DA-2 myeloid leukemia cell lines	1 line 6% ?	5'S 5'S	3'P 5'P,3'P	(1986) <u>Ihle et al.</u> (1989) <u>Askew et al.</u> (1991, 1994)
<i>His2</i>	?	Cas-Br-M MLV	mouse	myeloid leukemia cell lines	4%	?	?	<u>Askew et al.</u> (1991)
<i>Hox2.4/HoxB8</i>	transcription factor	IAP	mouse	myeloid leukemia cell line (WEHI-3B)	1 line	5'S(C)	3'P	<u>Blatt et al.</u> (1988); <u>Kongsuwan et al.</u> (1989)
<i>Hoxa7/Evi7</i>	transcription factor	BXH-2 MLV	mouse	myeloid leukemia	7%	5'(S, AS)	E	<u>Nakamura et al.</u> (1996)
<i>Hoxa9/Evi6</i>	transcription factor	BXH-2 MLV	mouse	myeloid leukemia	3%	5'(S, AS)	E	<u>Nakamura et al.</u> (1996)
<i>IL-2</i>	interleukin-2	GalV	ape	T-leukemia cell line MLA144	1 line	3'S	E, T	<u>S.J.Chen et al.</u> (1985); <u>Durand et al.</u> (1986); <u>Kono et al.</u> (1990)
<i>IL-2 receptor</i>	interleukin-2 receptor	IAP	mouse	T-cell lymphoma line I line EL-4	5'S	3'P		
<i>IL-3</i>	interleukin-3	IAP	mouse	myeloid and myelomonocytic leukemic lines	7 lines	5'(S, AS)	5'P, E	<u>Ymer et al.</u> (1985); <u>Duhrser et al.</u> (1990); <u>Leslie et al.</u> (1991)
<i>Int3</i>	Notch-related transmembrane receptor	MMTV	mouse	mammary carcinoma	20%	5'S(C)	3'P	<u>Gallahan and Callahan</u> (1987); <u>Gallahan et al.</u> (1987); <u>Robbins et al.</u> (1992)
<i>IntH/Int5</i>	aromatase	MMTV	mouse	hyperplastic alveolar nodules	3 cases	?	?	<u>Gray et al.</u> (1986); <u>Durgam and Tekmal</u> (1994)
<i>Int-p</i>	?	MMTV	mouse	mammary carcinoma	2 cases	?	?	<u>Schuermann and Michalides</u>

<i>Int6</i>	?	MMTV	mouse	mammary preneoplasia; mammary carcinoma	10%	AS (intron)	T	(1987); <u>Marchetti et al.</u> (1995).
<i>Int4I</i>	?	MMTV	mouse	mammary carcinoma, 2 cases kidney	?	?		<u>Garcia et al.</u> (1986).
<i>c-Ki-ras</i>	G protein	Fr-MLV	mouse	myeloid cell line 416B	1 line	5'S	3'P	<u>George et al.</u> (1986); <u>Trusko et al.</u> (1989); <u>Shin and Steffer</u> (1993).
<i>Lck</i>	nonreceptor PTK	Mo-MLV	rat	T-cell lymphoma	14%	5'S	5'P,3'P	<u>Marth et al.</u> (1985); <u>Voronova and Sefton</u> (1986); <u>Adler et al.</u> (1988).
<i>Meis1/Evi8/Evi10</i>	PBX1-related gene	BXH-2 MLV	mouse	myeloid lymphoma	5%	5'(S, AS), 3'S T		<u>Moskow et al.</u> (1995); <u>Nakamura et al.</u> (1996); <u>Villeneuve et al.</u> (1993).
<i>Mis2</i>	?	Mo-MLV	rat	T-cell lymphoma	3%	?	?	<u>Mucenski et al.</u> (1987).
<i>Mlvi2</i>	AKXD ML V	mouse	T-cell lymphoma	< 5%	?	?		<u>Tsichlis et al.</u> (1984, 1985a, b); <u>Tsichlis et al.</u> 1985a, b
<i>Mlvi3</i>	Mo-MLV	rat	T-cell lymphoma	60%	?	?		<u>Tsichlis et al.</u> (1989, 1990); <u>Lazo et al.</u> (1990).
<i>Mlvi4</i>	?	Mo-MLV	rat	T-cell lymphoma	15%	?	?	
<i>c-mos</i>	serine/threonine kinase	IAP	mouse	myeloma	3 lines	5'(S, AS) (C)	3'P, 5'P, T	<u>Rechavi et al.</u> (1982); <u>Cohen</u>